

**TITLE OF THE INVENTION**

GENE EXPRESSION PROFILE FOR KSHV INFECTION AND METHODS FOR  
TREATING SAME

**5 ABSTRACT OF THE INVENTION**

10 The present invention utilizes nucleic acid microarray technology to identify changes  
in the host endothelial cell transcription pattern that occurs during the latent and lytic  
phase of the KSHV life cycle. The production or activity of some genes up regulated  
during the lytic cycle were subsequently inhibited, and two such targets were shown to  
15 have a role in expression of late viral genes. Using this combined approach we have  
identified cellular pathways previously unknown to be important for KSHV infection,  
and present evidence for the efficiency of the novel antiviral approaches thus  
discovered. In addition, the present invention identifies a wide variety of endothelial  
cells genes and pathways that are involved in a variety of endothelial cell-mediated  
activity, including angiogenesis and transformation.